

## Interview Summary

Application No.

08/480,836

Applicant(s)

Rohit C. L. Sachdeva

Examiner

Dave Ghatt

Group Art Unit

3307



All participants (applicant, applicant's representative, PTO personnel):

(1) Dave Ghatt(3) Ed Burr(2) David Prichard

(4) \_\_\_\_\_

Date of Interview Jun 30, 1997Type: ☒ Telephonic ☐ Personal (copy is given to ☐ applicant ☐ applicant's representative).Exhibit shown or demonstration conducted: ☐ Yes ☒ No. If yes, brief description:Agreement ☐ was reached. ☒ was not reached.Claim(s) discussed: Proposed claims 38, 49, 50, 54, 57, 63, 77, and 78

Identification of prior art discussed:

Impaction Post.

Description of the general nature of what was agreed to if an agreement was reached, or any other comments:

Following the interview on Jun 26, Mr Prichard faxed in amended claims for discussion purposes only. These claims did not include the language "load bearing" because Mr Prichard felt the language was unacceptable to the examiners. Mr Burr told him that this was not the case, provided that he submits the statement explaining its relevance. Mr Burr also explained that the inclusion of the language, "the implant capable of serving" in the preamble of the independent claims, made them somewhat indefinite. Mr Prichard then said that in his next drafts he would include the "load bearing member", and revert to language closer to the that discussed in the previous interview.

(A fuller description, if necessary, and a copy of the amendments, if available, which the examiner agreed would render the claims allowable must be attached. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

1. ☒ It is not necessary for applicant to provide a separate record of the substance of the interview.

Unless the paragraph above has been checked to indicate to the contrary, A FORMAL WRITTEN RESPONSE TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a response to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW.

2. ☐ Since the Examiner's interview summary above (including any attachments) reflects a complete response to each of the objections, rejections and requirements that may be present in the last Office action, and since the claims are now allowable, this completed form is considered to fulfill the response requirements of the last Office action. Applicant is not relieved from providing a separate record of the interview unless box 1 above is also checked.

Examiner Note: You must sign and stamp this form unless it is an attachment to a signed Office action.

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## **FACSIMILE COVER SHEET**

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**TO: Examiners Ghatt and Burr**

**Fax No.: (703) 308-2864**

**Pages (including cover page): 6**

**Date: June 30, 1997**

**FROM: Dave Pritchard, Esq.**

**Re: Temporary Implant for Use as an Anchor in the Mouth  
Our Ref. No.: ORM-113US  
U.S. Serial No.: 08/480,836  
Applicants: Sachdeva et al.**

In follow up to our telephone conversation on June 26, 1997 in which we discussed potential claim amendments for each of the independent claims, I have attached a draft of sample claim amendments for discussion purposes, as you had requested. These sample amendments are not to be construed as a formal Reply by Applicants. I look forward to discussing these potential amendments with you once you have had an opportunity to consider them.

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U.S. Serial No.: 08/480,836  
TEMPORARY IMPLANT FOR USE AS AN ANCHOR IN THE MOUTH  
Applicants: Sachdeva et al.

**FOR DISCUSSION PURPOSES ONLY**

38. (Amended) An implant for use with an orthodontic appliance, the implant capable  
of serving as an anchor in the mouth in creating a stabilizing or moving force, comprising:

an elongated body having an in-bone portion connected to an above-bone portion, said in-bone portion and said above-bone portion each having an inner end and an outer end, the cross-sectional area of said above-bone portion inner end being greater than the cross-sectional area of said in-bone portion outer end, thereby forming a shoulder having a bone-contacting surface on said above-bone portion inner end capable of resting on a part of the bone surface adjacent to an opening in the bone when said implant is positioned in the mouth;

said elongated body further including a securing section for attaching an orthodontic appliance to said elongated body.

49. (Amended) An implant including an orthodontic appliance and capable of serving  
[for use] as an anchor in the mouth in creating a stabilizing or moving force, comprising:

an elongated body having an in-bone portion connected to an above-bone portion, said in-bone portion and said above-bone portion each having an inner end and an outer end, the cross-sectional area of said above-bone portion inner end being greater than the cross-sectional area of said in-bone portion outer end, thereby forming a shoulder having a bone-contacting surface on said above-bone portion inner end capable of resting on a part of the bone surface adjacent to an opening in the bone when said implant is positioned in the mouth;

said implant further including an integrally formed orthodontic appliance extending from said above-bone portion of said elongated body.

50. (Amended) An implant for use with an orthodontic appliance, the implant capable of serving as an anchor in the mouth in creating a stabilizing or moving force, comprising:

an elongated body having an inner end, an outer end, a securing section for attaching an orthodontic appliance to said implant, and a retention portion for assisting in securing said implant within an opening in a bone surface in the mouth;

said retention portion including a section of the elongated body extending from one of said inner end and said outer end at least part-way toward the other of said inner end and said outer end, said retention portion further including a tapered bore and at least one longitudinal cut, said tapered bore and said longitudinal cut extending from said one of said inner and outer ends with said tapered bore having a cross-sectional area which gets smaller in the direction of said inner end, whereby when said implant is positioned in an opening in a bone surface of the mouth, and an orthodontic appliance having a corresponding fastening section is attached to said elongated body, a portion of the fastening section biases against a portion of the sidewall of said tapered bore and moves said retention portion radially outward thereby securing said implant in the opening in the bone surface.

54. (Amended) An implant for use with an orthodontic appliance, the implant capable of serving as an anchor in the mouth in creating a stabilizing or moving force, comprising:

an elongated body having an inner end, an outer end, a securing section for attaching an orthodontic appliance to said implant, and a retention portion for assisting in securing said implant within an opening in a bone surface in the mouth;

said retention portion including a section of the elongated body extending from one of said inner end and said outer end at least part-way toward the other of said inner end and said outer end, said retention portion being formed of a shape-memory alloy and including a bore and at least two longitudinal cuts, said bore and said longitudinal cuts extending from said one of said inner end and said outer end at least part-way toward said other of said inner end and said outer end, said longitudinal cuts forming at least two leg portions, said retention portion capable of assuming a predetermined shape in which said leg portions angle slightly radially outward when said retention portion reaches an ambient mouth temperature, thereby securing said implant in an opening in a bone surface in the mouth.

57. (Amended) An anchorage system including an onplant and an implant for use in creating a stabilizing or moving force in the mouth, comprising:

an onplant having a bone-facing surface, an opposite face, and a hole extending through said onplant at an angle substantially perpendicular to said bone-facing surface; and

an implant for use in affixing said onplant to a bone surface in the mouth, said implant having an elongated body including an inner end and an outer end, a portion of said elongated body including said inner end capable of being positioned through said hole and in an opening in a bone surface in the mouth.

63. (Amended) A method of forming an anchor for use with an orthodontic appliance, the anchor being positioned in a non-occlusal surface of the mouth for use in creating a stabilizing or moving force, comprising the steps of:

providing an implant having an elongated body which includes an inner end, an outer end, an outer circumferential surface between said inner and outer ends, and a securing section for attaching an orthodontic appliance to said elongated body; and

positioning at least a part of said elongated body, including said inner end, in an opening in a bone surface selected from the group consisting of the buccal, labial, lingual and palatal surfaces of the maxillary jawbone and the buccal, labial and lingual surfaces of the mandibular jawbone, thereby forming an anchor in a non-occlusal surface of the mouth for use in creating a stabilizing or moving force.

77. (Amended) A method of forming an anchor including an orthodontic appliance in a non-occlusal surface of the mouth for use in creating a stabilizing or moving force, comprising the steps of:

providing an implant having an elongated body and an integrally formed orthodontic appliance, said elongated body including an inner end and an outer end; and

positioning at least a part of said elongated body, including said inner end, in an opening in a bone surface selected from the group consisting of the buccal, labial, lingual and palatal surfaces of the maxillary jawbone and the buccal, labial and lingual surfaces of the mandibular jawbone, thereby forming an anchor in a non-occlusal surface of the mouth for use in creating a stabilizing or moving force.

78. (Amended) A method of forming an anchorage system including an onplant and an implant in the mouth for use in creating a stabilizing or moving force, comprising the steps of:

placing an onplant on a bone surface in the mouth selected from the group consisting of the buccal, labial, lingual and palatal surfaces of the maxillary jawbone and the

buccal, labial and lingual surfaces of the mandibular jawbone, said onplant having a bone-facing surface, an opposite face, and a hole extending through said onplant at an angle substantially perpendicular to said bone-facing surface; and

positioning a portion of an implant through said hole in said onplant and in an opening in said bone surface thereby affixing said onplant to said bone surface, said implant having an elongated body including an inner end and an outer end.

KAORMU113US\revised claims 7197.wpd